

Formulas for extrapolation of . . .

S/052/62/007/001/005/005
C111/C444

where

$$\begin{aligned} & \psi_{s_n, \nu_n}(\lambda^{(n-1)}, \lambda_n) = \\ & = \frac{1}{2\pi\varphi_{\lambda^{(n-1)}}(\lambda_n)} \int_0^\infty e^{-ip_n \lambda_n} dp_n \int_{-\infty}^\infty e^{i(p_n + s_n)\mu_n} (1 - e^{-i\nu_n \mu_n}) \varphi_{\lambda^{(n-1)}}(\mu_n) d\mu_n, \end{aligned} \quad (5)$$

for $\lambda^{(n-1)} \neq 0$,

$$\begin{aligned} & \psi_{s_n, \nu_n}(0, \dots, 0, \lambda_n) = \\ & = \frac{i\lambda_n}{2\pi\varphi_0(\lambda_n)(1+i\lambda_n)} \int_0^\infty e^{-ip_n \lambda_n} dp_n \int_{-\infty}^\infty e^{i(p_n + s_n)\mu_n} (1 - e^{-i\nu_n \mu_n}) \frac{1+i\mu_n}{i\mu_n} \varphi_0(\mu_n) d\mu_n, \end{aligned}$$

and

$$\varphi_{\lambda^{(n-1)}}(\lambda_n) = \exp \left\{ -\frac{1}{2\pi i} \int_{-\infty}^\infty \frac{1+\lambda_n w}{\lambda_n - w} \log \left[\frac{F(d\lambda^{(n-1)}, d\lambda_n)}{F(d\lambda^{(n-1)}, \infty) \times d\lambda_n} \right] \frac{d\lambda_n}{1+\lambda_n^2 + i\alpha} \right\},$$

for $\lambda^{(n-1)} \neq 0$

(6)

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$$\eta_0(\lambda_n) = \exp \left\{ -\frac{1}{2\pi i} \int_{-\infty}^{\infty} \frac{1 + \lambda_n w}{\lambda_n - w} \log \left[\frac{(1 + \lambda_n^2)^{-1} \lambda_n^2 F(0, \dots, 0, d\lambda_n)}{\left(\int_{-\infty}^{\infty} \frac{\lambda_n^2}{1 + \lambda_n^2} F(0, \dots, 0, d\lambda_n) \right) \times d\lambda_n} \right] \frac{d\lambda_n}{1 + \lambda_n^2} + i\alpha \right\}$$

(α being an arbitrary real number).

Here P_n^- denotes the space of the n -dimensional vectors λ with the excluded point $\lambda = 0$; $Z(S)$ is a random measure in P_n^- , $F(S) = \int M |Z(S)|^2$.

Theorem 1 gives necessary and sufficient conditions for the regularity of a field.

For several special random fields one obtains explicit extrapolation formulas by reducing the extrapolation of the fields to the extrapolation of the processes.

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The author mentions: Kolmogorov, Kreyn, Chiang Tse-pei. He thanks
A. M. Yaglom for the guidance of his paper.

There are 9 Soviet-bloc and 3 non-Soviet-bloc references.

SUBMITTED: March 3, 1960

Card 5/5

FORTUS, M.I.; YAGLOM, A.M.

Evaluation of the coefficients of the linear combination of defined functions in the presence of noise with rational spectra. Probl. pered. inform. no.14:136-150 '63. (MIRA 16:12)

L 13397-63

BDS/EWT(1)/FCC(w) AFFTC/ASD IJP(C)

ACCESSION NR: AP3001462

8/0052/63/008/002/0220/0223

AUTHOR: Fortus, M. I. (Moscow)

52

TITLE: Extrapolation of a random field satisfying the wave equation

SOURCE: Teoriya veroyatnostey i yeye primeneniya, v. 8, no.2, 1963, 220-223

TOPIC TAGS: linear extrapolation, random field, ergodic process

ABSTRACT: The random field $u(t,x)$, which is a solution of the wave equation, is represented as the sum of two uncorrelated stationary processes. Under an assumption of ergodicity, and under the assumption that the field is known in a semi-infinite strip, best linear extrapolation formulas in the mean square sense, and corresponding mean square errors, are derived for values of the field outside the strip. Orig. art. Has: 16 formulas and 1 figure.

ASSOCIATION: none

SUBMITTED: 19Dec61

DATE ACQ: 17Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 005

OTHER: 000

Card 1/1

L 13502-65 ENT(1)/FCC ASD(d)/ESD(dp) GW

ACCESSION NR: AT4047189

S/2531/64/000/165/0027/0039

AUTHOR: Fortus, M. I.

TITLE: Three-dimensional spatial structure of the geopotential field

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy*, no. 165, 1964. Primeneniye statisticheskikh metodov v meteorologii (Use of statistical methods in meteorology), 27-²⁸/₃₉

TOPIC TAGS: atmospheric geopotential field, weather forecasting, atmospheric pressure field, meteorological correlation function, meteorological structural function

ABSTRACT: At present, meteorologists for the most part use only the simplest statistical characteristics -- mean values, dispersions and correlation coefficients of meteorological values. This article presents certain new data on the statistical characteristics of the most important meteorological field, the geopotential field $\Pi(xy, y, p, t)$, determining the values of atmospheric pressure at different points at different times. Specifically, the author derives the space correlation functions of the geopotential of isobaric surfaces and proposes approximations of the derived functions using simple formulas. In

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ACCESSION NR: AT4047189

section 1 the author cites earlier papers containing data on empirical correlation and structural functions of the geopotential field and examples of the use of these data for the purpose of an objective analysis of meteorological charts and the solution of certain problems arising in numerical forecasting by the solution of the differential equations of hydrothermodynamics. In section 2 the results obtained in those studies are considered in greater detail. It is noted that in all earlier studies the authors considered the geopotential field only from a two-dimensional point of view $H(x, y, t)$. In this study the author makes a three-dimensional study, using five isobaric surfaces (1000, 850, 700, 500 and 300 mb), and computes 15 correlation functions. The method for smoothing the functions is described, followed by their analysis. Particular attention is given to a comparison of correlation functions corresponding to five different levels. The analysis yielded information on the mean longitudinal values of dispersion for all five levels. Orig. art. has: 15 formulas, 5 figures and 2 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES

NO REF SOV: 006

OTHER: 000

Card 2/2

FORTUSHENKO. A. D.

D-45 FORTUSHENKO. A. D., Ed. 50 let radio (Fifty years of radio).
Moscow. Gos, izd-vo lit-ry po voprosam svyazi i radio,
1945. 382p. DFC TK6548.R9F67; OUMF No. 200-H.

A pamphlet containing material for reporters covering the celebration of the fiftieth anniversary of the invention of radio by A.S. Popov. The pamphlet was approved by the Committee of the Council of Ministers of the U.S.R. for organizing the celebration.

FORTUSHENKO, A.D., redaktor; USHOMIRSKAYA, M.M., redaktor; VEYNTRAUB,
A.B., tekhnicheskii redaktor

[60 years of radio; a collection of scientific and technical articles] 60 let radio; nauchno-tekhnicheskii sbornik. Moskva, Gos.
izd-vo lit-ry po voprosam svyazi i radio, 1955. 341 p. (MIRA 8:8)
(Radio)

FORTUSHENKO, A. D.

USSR/Electronics - Communications

Card 1/1 Pub. 133 - 2/16

Authors : Fortushenko, A. D.

Title : Radio communication and radio broadcasting in the Soviet Union

Periodical : Vest. svyazi 5, 3-5, May 1955

Abstract : The role of radio as the only media of communication with northern, and far-eastern regions of the USSR is stressed, and a general description of the successive steps in the development of radio communication and radio broadcasting, is given. In addition, the article also relates that in recent years, new types of radio transmitters were produced by the industry. Namely, the KV-678, KV-5, PK-2, and PK-4, and that 300,000 television sets of the type "Temp", "Avangard", and "Sever" were produced in 1954. Names of several Soviet scientists and engineers who contributed to the above mentioned developments are listed. Illustrations.

Institution :

Submitted :

Translation M-1319, 19 Nov 56

FORTUSHENKO, A. D. (Capt-Tech-Sci, Vice-Chairman, Technical Council, Ministry of Communications USSR.)

"SOME IMPORTANT TASKS IN INTRODUCING NEW TECHNIQUES IN
THE COMMUNICATIONS FIELDS".

Vestnik Svyazi, No 10, Moscow, 1955 pp 3-4.

Translation M-1231, 18 Sep 56.

PORTUSHENKO, A.

New Journal. Radio no. 11:39 N'55. (MIRA 9:1)
(Telecommunication--Periodicals)

FORTUSHENKO, A.D.

Call Nr: TK 5101.F 35

AUTHORS: Fedorovich, Ye.G., Frolov, P. A.

TITLE: Ways for Further Technical Progress of Means of Communication (Puti dal'neyshego tekhnicheskogo progressa sredstv svyazi) Courses in Communication Technology (Lektsii po tekhnike svyazi)

PUB.DATA: Gosudarstvennoye izdatel'stvo literatury po voprosam svyazi i radio, Moscow, 1956, 34 pages, 12,000 copies

ORIG.AGENCY: Technical Administration of the Ministry of Communications of the USSR

EDITORS: Chief Ed: Fortushenko, A.D.; Ed: Leybov, M. K.;
Tech.Ed: Sushkevich, V.I.;

PURPOSE: The preface, signed by the Technical Administration of the Ministry of Communications, USSR, states that the monograph "is in essence a summary written to assist people giving reports who are managers of administrations and communication concerns." It is presented as part

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Call Nr: TK 5101.F 35

Ways for Further Technical Progress of Means of Communication (Cont.)

of a lecture series on communication technology.

COVERAGE: This booklet is a brief description of the principal objectives and trends in the technical development of communication facilities in the Sixth Five-Year Plan. Mention is made of the organization in 1956 of the Central Scientific Research Institute for Telephone Technique in Leningrad (NIITS) and of the Kiyev branch of the Central Scientific Research Institute for Communications (TsNIIS). There are no bibliographic references.

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Call Nr: TK 5101.F 35

Ways for Further Technical Progress of Means of Communication (Cont.)

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Call Nr: TK 5101.F 35
Ways for Further Technical Progress of Means of Communication (Cont.)

VI. Tasks in the field of technical information and
propaganda

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AVAILABLE: Library of Congress

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BORODICH, S.V.; KALININ, A.I.; FORTUSHENKO, A.D., otvetstvennyy redaktor;
GRIGOR'YEV, B.S., redaktor; VEYNTRAUB, A.B., tekhnicheskiiy redaktor

[Handbook for electrocommunications engineering] Inzhenerno-
tekhnicheskii spravochnik po elektrosviazi. Moskva, Gos. izd-vo
lit-ry po voprosam svyazi i radio. Vol. 7. [Radio relay systems]
Radioreleinye linii. 1956. 172 p. (MIRA 9:9)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi.
(Radio relay systems)

Fortushenko, A. D. PHASE I BOOK EXPLOITATION

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Fortushenko, Aleksandr Dmitriyevich, Candidate of Technical Sciences

Razvitiye sredstv svyazi v SSSR za 40 let (40 years of Development of the Means of Communication in the U.S.S.R.) Moscow, Izd-vo "Znaniy", 1957. 31 p. (Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy. Seriya IV, 1957, no. 35) 61,000 copies printed.

Ed.: Faynbeym, I. B.; Tech. Ed.: Gubin, M. I.

PURPOSE: The booklet is intended to present in popular style the progress of Soviet communication facilities in the 40 years since the October Revolution of 1917.

COVERAGE: The book starts with a short description of 19th and early 20th century researches in the fields of telegraphy, telephony and telecommunications, and the state of Russian means of communications on the eve of the October revolution. The following chapters describe progress since achieved in the realms of postal, telegraphic,

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40 years of Development of the Means of Communication in the U.S.S.R.

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telephonic, phototelegraphic, radio and television communications. Several Russian and Soviet scientists and research institutes are mentioned in connection with their works. Among them are Agapov, I. F., mentioned as having developed in 1947 a system of two-frequency radiotelegraph, Borodich, S. V., who completed in 1956 a new 60-120 channel radio relay system in the 1600-2000 mc band covering vast areas in European and Asiatic USSR; Shmakov, P. V., head of the Leningrad Telecommunication Institute which in 1956 gave a public demonstration of colored television; the Tsentral'nyy nauchno-issledovatel'skiy institut svyazi and which with the "Krasnaya Zvezda" plant developed in 1938-40 a 12-channel system of multiplexing aerial lines with frequencies up to 150 kc. Several types of multiplexing systems and other apparatus of Soviet production are described. There are no references.

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Postal communications

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Long distance aerial and cable line communication

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AVAILABLE: Library of Congress

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JJP/gap
May 27, 1956

108-7-11/15

AUTHOR: Not given
TITLE: Allunion Scientific Session, dedicated to the Day of Radio. "
(Vsesoyuznaya nauchnaya sessiya, posvyashchennaya "Dnyu" radio,
Russian)
PERIODICAL: Radiotekhnika, 1957, Vol 12, Nr 7, pp 75-79 (U.S.S.R.)
ABSTRACT: About 2000 collaborators as well as representatives from foreign
countries, among them also those of the American Society of
Radio Engineers, participated in the session taking place from
20. to 25. May 1957.
The following participants spoke at the main session:
A.D.FORTUSHENKO on "Ways of technical development of electro-
telecommunication".
YE.A.GAYLISH on "Small parts for mass application".
G.D.GLEBOV on "Semiconductor devices".
S.I.KATAYEV on "Electrical Telescopy".
V.K.TKACH on "Use of radio methods in the research of patho-
logical phenomena in organisms."
A short report was delivered by
A.L.MINTS on "Putting into operation of the radiotechnical-
and electron part of the synchrophasotron for 10 billion
electron-volt.

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108-7-11/13

Allunion Scientific Session, dedicated to the Day of Radio.

Twelve sections were working during the session, and a total of 175 lectures was held. The lectures are dealt with in short which were held under the supervision of V.A.KOTEL'NIKOV in the section for information theory, under the supervision of G.S.TSYKIN in the section for semiconductor devices, under the supervision of A.N.KAZANTSEV in the section of radiowave propagation, and under the supervision of P.P.MESYATSEV in the section for radiotechnology.

ASSOCIATION: Not given

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

Card 2/2

FORTUSHENKO, A. D.,

~~FORTUSHENKO, A. D.~~

Without paper and distances. Vest.sviazi 17 no.10:15-18 0 '57.

(MIRA 10:11)

1. Glavnyy inzhener Moskovskoy gorodskoy radiotranslyatsionnoy seti.
(Radio relay systems)

Chief, Sci. Res. Dept. Ministry Communications USSR

FORTUSHENKO, A.D.

IODKO, Yevgeniy Konstantinovich; FORTUSHENKO, A.D., otvetstvennyy red.;
VORONOVA, A.I., red.; MAZEL', Ye.I., tekhn.red.

[Organisation and planning of radio communication and radiobroad-
casting] Organizatsiia i planirovanie radiosviazi i radioveshchaniia.
Moskva, Gos.isd-vo lit-ry po voprosam svyazi i radio, 1958. 543 p.
(Radiobroadcasting) (Radio) (MIRA 11:6)

FORTUSHENKO, A.D.

19(6)

807/111-99-6-6/32

NOTES:

None given

TITLE:

The Construction of Communication Equipment - on the Level of New Goals

PERIODICAL: Vsesoyuz. 1959, Nr 6, pp 1-4 (USSR)

ABSTRACT:

The article presents information on an all-Union conference of construction specialists of the USSR Ministry of Communications, which was convened in Moscow, the first report was delivered by S. J. Kuznetsov, the USSR Minister of Communications, on the principles of the development of communications for 1959 - 1965, and goals for fulfilling the plan of the construction of communication equipment for 1959, and the further increase in the technical level of the construction of communication equipment. In 1959, the USSR Minister of Communications, S. J. Kuznetsov, pointed out that communication equipment sent into the construction during the 1959 - 1965 period as compared with the past 7-year period. The productivity of construction (construction trusts) will be 22% more than in 1959. The mechanization of construction is insufficient for the planned amount of work, and measures are being taken to provide for construction equipment and for automobile-tractor means of very high capacity. The workshop of the construction trusts will have to produce construction and means of mechanization. Permanent bodies of construction and assembly units (OAS) are being organized to provide for a stable labor force and for a base for the construction of communication equipment. The mechanization of construction and telephonization work, carried out by SNTK and SNTKh, will be increased from 5 to 60% in the construction of overhead radiofication and 75% in the construction of cable lines, and up to 80% in the construction of cable lines. Also, the production and the use of reinforced concrete parts should be promoted. To bring the project development work nearer

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to the construction sites, branch project institutes were organized during 1959 in some Soviet republics. In 1959, a branch institute is planned for Leningrad. The standard projects have raised the technical level of construction, and are being further improved along with the modernization of equipment. Production of new parts and their standardization. Nevertheless, the costs of the projects are still too high, and there are cases of defective projects and, especially often, of inaccurate costs estimates. The cooperation between the local project institutes and the scientific research institutes of the Ministry of Communications is being improved and will have to be improved. The Deputy Minister of Communications, on the basis of the fulfilled plan of the investment building for 1959, and the goals for further industrialization and mechanization of communication objects.

SOV/11-59-6-6/3c

senior reviewed the achievements in investment building during the year 1958 and stressed that a number of construction organizations did not reduce the costs of construction and assembly work as planned. #6, the "Great Electrification" (Great Electrification) 9, he pointed out that accomplishing the construction objects is not only a matter of money, but also a matter of the building investment plan for 1959 called for and the building construction activity of 16.5% as compared with the work volume accomplished in 1958. To achieve this, the building machinery pools will be increased and modernized, the Novosibirsk and the "Novosibirsk Base" (Novosibirsk and L'vov Base) will be expanded, and a number of new bases will be established. The trusts will conduct an on-the-job training of 1,100 workers, and will improve the qualifications of an additional 1,100 workers. 86 engineers and 53 technicians will be assigned from among the graduates of special education institutions. In the discussion following, both re-

[illegible][illegible]

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FORTUSHENKO, A.D.

New work on the improvement of radiobroadcasting and television
engineering. Tekh.kino i telev. 4 no.10:1-7 0'60. (MIRA 13:10)

1. Nachal'nik Nauchno-issledovatel' skogo instituta Ministerstva svyazi
SSSR.

(Television) (Radiobroadcasting)

GRODNEV, I.I.; GUMEL'YA, A.N.; KLIMOV, M.A.; SMIRNOVICHUK, K.Ya.;
SHVARTSMAN, V.O.; GRIGOR'YEV, B.S., red.; PORTUSHENKO,
A.D., red.; BOGACHEVA, G.V., red.; SHEFER, G.I.,
tekhn.red.

[Electrical communications engineering handbook; cable and
overhead communications lines] Inzhenerno-tekhnicheskii
spravochnik po elektrosvyazi; kabel'nye i vozdushnye linii
svyazi. Moskva, Gosizd-vo lit-ry po voprosam svyazi i radio,
1961, 558 p. (MIRA 14:3)
(Telephone lines)

BOVKUN, Viktor Georgiyevich; KAZARINOV, Ivan Alekseyevich; KOKOSHKIN, Pavel Aleksandrovich; LYUBSKIY, Gennadiy Severianovich; MEDOVAR, Anatoliy Isayevich; PETROV, Viktor Vasil'yevich; PIONTKOVSKIY, Bronislav Aleksandrovich; SERYAKOV, Nikolay Ivanovich; ELINSON, Mikhail Mikhaylovich; SERGEYCHUK, K.Ya., red.; GRIGOR'YEV, B.S., red.; FORTUSHENKO, A.D., red.; BUSANKINA, N.G., red.; SHEFER, G.I., tekhn. red.

[Engineering manual on electric communications; electric equipment] Inzhenerno-tekhnicheskii spravochnik po elektrosviazi; elektroustanovki. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1962. 671 p. (MIRA 15:6)

(Telecommunication--Handbooks, manuals, etc.)

(Electric engineering--Handbooks, manuals, etc.)

NOVIKOV, Vasil'y Vasil'yevich; ZUBOVSKIY, Leonid Isaakovich;
PRAMNEK, German Fritsevich; KOGAN, Valentina Solomonovna;
KLYKOV, Semen Ivanovich; NAUMOV, Pavel Alekseyevich;
YEMEL'YANOV, Gennadiy Alekseyevich; VORONIN, Nikolay
Isidorovich; SERGEYCHUK, K.Ya., red.; GRIGOR'YEV, B.S., red.;
FORTUSHENKO, A.D., red.; NOVIKOV, V.V., otv. red.; SMOLYAN,
G.L., red.; MARKOCH, K.G., tekhn. red.

[Manual on electric communications; telegraphy] Inzhenerno-
tekhnicheskii spravochnik po elektrosviazi; telegrafiia.

[By] V.V.Novikov i dr. Moskva, Sviaz'izdat, 1963. 654 p.

(MIRA 16:5)

(Telecommunication--Handbooks, manuals, etc.)

(Telegraph--Handbooks, manuals, etc.)

PSURTSEV, N.; KUZ'MIN, V.; DOGADIN, V.; FORTUSHENKO, A., prof.; GUSEV, I.;
BLOKHIN, A., kand. tekhn. nauk

Wealth of the millions. Radio no.8:4-6 Ag '64. (MIRA 17:11)

1. Ministr svyazi SSSR (for Psurtsev). 2. Nachal'nik Tekhnicheskogo
upravleniya Ministerstva svyazi SSSR (for Kuz'min). 3. Zamestitel'
nachal'nika Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy svyazi
i radiofikatsii (for Dogadin). 4. Glavnyy inzh. Glavnogo upravleniya
gorodskoy i sel'skoy svyazi i radiofikatsii (for Gusev).

FORTUSHENKO, A.D., prof., red.

[70th anniversary of radio] Radio 70 let; nauchno-
tekhnicheskii sbornik. Moskva, Sviaz', 1965. 331 p.
(MIRA 18:7)

FORTUNE, ., prof.

By means of a relay station in outer space. Radio no.7:7-9
JL '65. (MIRA 18:9)

FSURTSEV, N.; KUZ'MIN, V.; DOGADIN, V.; FORUSHENKO, A., prof.; GUSEV, I.;
BLOKHIN, A., kand. tekhn. nauk

It was accomplished by millions. Radio no.8:4-6 Ag '65.

(MIRA 18:7)

1. Ministr svyazi SSSR (for Psurtsev). 2. Nachal'nik Tekhnicheskogo
upravleniya Ministerstva svyazi SSSR (for Kuz'min). 3. Zamestitel'
nachal'nika Glavnogo upravleniya gorodskoy i sel'skoy telefonnoy
svyazi i radiofikatsii (for Dogadin). 4. Glavnyy inzh. Glavnogo
upravleniya gorodskoy i sel'skoy telefonnoy svyazi radiofikatsii
(for Gusev).

FORTUSHENKO, A.D.

Seventieth anniversary of the invention of radio. Radiotekhnika 20
no.5:5-9 My '65. (MIRA 18:10)

1. Pochetnyy ohlen Nauchno-tekhnicheskogo ~~obshchestva~~ radiotekhniki
i elektrosvyazi imeni Popova.

L 07/12/71-01 EWT(0)/FSS-2/EWT(1)/EEG(k)-2-AST/TT

ACC NR: AN7001058

SOURCE CODE: UR/9012/66/000/150/0004/0004

AUTHOR: Fortushenko, A. (Professor; Technical director of experimental space color transmission project)

ORG: none

TITLE: Color telecast: Paris-Molniya-I-Moscow

SOURCE: Pravda, 30May66, p. 4, col. 1-2

TOPIC TAGS: color TV, communication satellite/Molniya-1 communication satellite

ABSTRACT: On 28 May at the Moscow Television Center there was a demonstration of reception of color TV. It was transmitted from Paris via the Soviet satellite "Molniya-1". This was the result of an agreement concluded between France and the USSR in March 1965 for cooperation in the joint development of a system for transmission of color television. A test run of the satellite system was made in November 1965 with transmission of a program from Moscow to Paris. On 28 May the TV images were transmitted along a cable to a large antenna situated outside Paris and then to the Soviet satellite, which carries a powerful 40-W transmitter. The transmission was received over a wide area. It was received near Moscow and transmitted by land line to the Moscow Television Center. The color image was shown in an auditorium, automatically magnetically

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recorded and fed to a television transmitter. Soon it will be feasible to have regular black-and-white and color TV transmission between the USSR and France via the "Molniya" satellite. The sound accompaniment for the program was fed along a land cable. For regular transmissions it will be necessary to arrange simultaneous transmission of sound and picture via the satellite as is now done for black and white transmission. This problem now is being solved by Soviet and French scientists. [JPRS: 36,553]

SUB CODE: / SUBM DATE: none

Card 2/2 *egh*

FORTUSHNOV, D.I.

USSR / Human and Animal Morphology (Normal and Pathological).
Skeleton.

S

Abs Jour : Ref Zhur - Biol., No 21, 1956, No 97150

Author : Fortushnov, D.I.

Inst : Saratov Medical Institute

Title : Some Data on the Development of the Structure of the
Spongy Substance of Human Vertebrae.

Orig Pub : Tr. Kafedr. norm. anatomii, Saratovsk. med. in-t, 1955,
vyp. 1, 88-93

Abstract : No abstract.

Card 1/1

FORTUSHNOV, Dmitriy Ivanovich

To the Question Concerning Structures of the Lumbar-Sacral Sections
of the Spinal Column and Clinical Significance of Several Variants of
its Breaks

Dissertation for candidate of Medical Science degree, Chair of Normal
Anatomy (head, Prof. V.I. Bik) Saratov Medical Institute, 1952

FORTUSHNYI, V. A. and KAPUSTIN, I. K. (Candidate of Veterinary Sciences
and Veterinary Surgeon, UNIIIEV).

"Penicillin in eye therapy"

Veterinariya, Vol, 38, no. 10, October 1961, pp. 81-89

FORTUSHNYI - Cand. Vet. Sci

OKUN'KOV, P.; OSTAPENKO, K.; YEPIFANOV, G.F.; MEDVEDEV, I.D.; FORTUSHNYY, V.;
IBRAGIMOV, R.P.; KOLEGAYEV, G.

Brief news. Veterinariia 41 no.12:101-109 D '64. (MIRA 18:9)

FORTUSHNYI, V. A.

Ukrainian Inst of Experimental Veterinary Medicine

"Treatment of skin mange of horses with sulfur-lime powder."

SO: Veterinariia 24(1), 1947, p. 9.

GLADENKO, I. N. and FORTUSHNYI, V. A., Cand. of Vet. Sci.
Ukrainian Institute of Experimental Veterinary Medicine
"Use of DDT and hexachlorane in the fight against dipterous
blood-sucking insects."
SO: Veterinariya 26 (7), 1949, p. 40

FORTUSHENYY, V. A.

25918. FORTUSHENYY, V. A. Lechenie nekrvatsilleza. Veterinariya, 1949, No. 8, S. 21-23.

So. Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

PALIMPSETOV, M. A., OSTASHEVSKII, A. G., FORTUSHIN, V. A., Cand. of Vet. Sci.,
and ALFIMOVA, A. V.

"The influence of physical and chemical factors on mange ticks
in environment."

SO: Vet. 27 (10) 1950, p. 38

1. Fortushnyy, V.A., Gladenko, I.N.
2. USSR (600)
4. Hexachloran
7. Testing the toxicity of hexachloran on warmblooded animals. Nauch. trudy UIEV 18, 1951.
9. Monthly List of Russian Accessions. Library of Congress. March 1953 Unclassified.

1. PALIMPSESTOV, N. A.: FORTUSHNYI, V. A.: GLADENKO, I. N.
2. USSR (600)
4. Ticks
7. Studying the tick-killing properties of DDT and hexachloran in relation to pasture ticks and experiments in preventing tick infestation of farm animals. Nauch. trudy UIEV 18, 1951.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

1. FORTUSHNYY, V. A., GLADENKO, I. N.
2. USSR (600)
4. Gadflies - Dnieper Valley
7. Horseflies (Tabanidae) of the Lower Dniefer flood plains and measures for their control. Nauch.trudy UIEV 18 - 1951,

Monthly Lists of Russian Accessions, Library of Congress, March, 1953, Unclassified.

CA

11/4

Toxicity of hexachloron (benzene hexachloride) to warm-blooded animals. V. A. Fortushnyi and I. N. Glushenko. *Veterinariya* 28, No. 2, 33-4 (1961).—Benzene hexachloride administered internally is highly toxic to white mice, rabbits, dogs, and horses. Administration of the pure substance at 0.5 g./kg. or higher is definitely toxic to rabbits and dogs, and at 0.025 g./kg. to horses; lethal doses are 0.75 g./kg. and 0.1 g./kg., resp. Externally applied to the skin the pure substance is not toxic to horses or cattle (used as 1:4 aq. suspension of 12% dust with neutral filler). Rabbits and dogs are less susceptible to intoxication on internal administration than horses at the same dosage.

G. M. Komoloff

1961

FORTUSHENYI, V. A.,

Veterinary Hygiene

Results of work in the Chuguevskii zootechnical veterinary district. Veterinariia 29 no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952₂, Unclassified.

USSR/Biology - Insecticides

Mar 53

"Control of Blood-Sucking, Two-Winged Insects,
by Means of Aerial Dispersion of Contact
Poisons," I. N. Gladenko, Cand of Vet Sci, V. A.
Fortushnyy, Ukr Inst of Exptl Vet Med

Veterinaria, No 3, pp 37-40

Describes exptl attempts to destroy the breeding
places of harmful insects, such as mosquitos,
horseflies, etc., by aerial dispersion of DDT
and hexachlorane. Ascribes the highly satis-
factory results obtained to careful prepn of
the contact poison, its proportions being

calculated as 1-2 kg per hectar; also to the
freq of the operation, covering the same area
not less than three times a month. The ef-
fectiveness of DDT and hexachlorane has been
found to be approx the same. In bodies of
water such as ponds, reservoirs, etc., these
poisons showed essentially no adverse effects
on zoological plankton, benthos and fish.

256T1

FORTUSHNYY, V. A.

PALIMPSESTOV, M. A. AND FORTUSHNYY, V. A.: New medicinal agents and their use in veterinary practice. Kiev. Agricultural Publishing House. 1952. 119 pages. Price 1 ruble, 95 kopeks. 30,000 copies. In Ukrainian.

Parasites and parasitoses of domestic animals. (collected works). Kiev. Publication of the Academy of Sciences, Ukrainian SSR. 1952. 124 pages with illustrations. Price 7 rubles, 55 kopeks. 2,000 copies. Resume of articles in Russian.

The works on morphology and physiology of gray karakul sheep. Moscow. Publication of the USSR Academy of Sciences. 1952. 259 pages with illustrations. No. 7. Price 14 rubles, 25 kopeks. 1,500 copies.

SO: Veterinariya; 30; (1); January 1953; Uncl. TABCON

GLADENKO, I.N., kandidat veterinarnykh nauk; VORTUSHNYY, V.A., kandidat
veterinarnykh nauk.

Control of bloodsucking diptera by airplane spraying of biotope
area with contact poisons. Veterinariia 30 no.3:37-40 Mr 53.

(MLRA 6:3)

1. Ukrainskiy institut eksperimental'noy veterinarii.

(2)

Toxicity of food substances obtained from plants treated with benzene hexachloride (BHC). I. N. Gladkova and V. A. Portushnyl. Veterinariya 31, No. 3, 59-63 (1954). Beet plants which had been treated with 30-40 kg. BHC/ha. two or more months previously are harmless as feed for farm animals. Tubers of beets or potatoes grown in soil treated with 12% BHC dust at dosage not over 100 kg./ha., or from seeds which were pretreated with BHC, are also usable for feed without harm. Grass and hay can be used as feed provided the BHC treatment was 3-4 weeks before harvesting. The fat of animals on the latter feed can acquire a peculiar odor.
G. M. Kosolapoff

Ukr. Inst. Supermineral Vet. Sci.

FORTUSHNYY, V.A., kandidat veterinarnykh nauk.

Biemycin and levemycetin in paratyphoid fever and colibacillosis
in calves. Veterinariia 32 no.2:36-38 F '55. (MLRA 8:3)

1. Ukrainskiy institut eksperimental'noy veterinarii.
(ANTIBIOTICS) (CALVES---DISEASES) (PARATYPHOID FEVER)

FORTUSHNYI, V. A.

✓ New antiparasitic preparations from coal tar. V. A. Fortushnyi and D. M. Patz. *Veterinariya* 32, No. 8, 74-6 (1955).—Insecticidal and acaricidal properties were found in thianaphthene, which was employed in dusts or oil solutions on infected horses and rabbits with various specimens of lice, moths, and ticks. The parasites are killed outright after a rapid onset of paralysis. G. M. Kosolapoff

CH

AA
MST

3

USSR / Pharmacology, Toxicology. Chemotherapeutic
Preparations.

V

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42461.

Author : Gladenko, I. N.; ~~Portushny, V. A.~~; Yezhova, O. I.

Inst : Ukrainian Institute of Experimental Veterinary
Sciences.

Title : The Effect of Biomycin and Levomycetin upon the
Higher Nervous Activity in Animals.

Orig Pub: Byul. nauchno-tekhn. inform. Ukr. n-i. in-t eks-
perim. veterinarii, 1957, No 3, 24-26.

Abstract: It was demonstrated in experiments on rats with
the aid of the conditioned reflex method that bio-
mycin (I) and levomycetin exert an action upon
the inhibition processes in the cerebral cortex.
In moderate doses (25 mg/kg) this is manifested
by intensification of the inhibitive processes

Card 1/2

PORTUSHNYI, V.A.

GLADENKO, I.N., kand. vet. nauk; ~~PORTUSHNYI, V.A.,~~ kand. vet. nauk; NIKIFOROV,
N.I., kand. vet. nauk.

Work practice of disinfection detachments in the Ukraine. Veterinariia
34 no.10:64-67 0 '57. (MLBA 10:11)
(Ukraine--Disinfection and disinfectants)

USSR / Pharmacology. Toxicology. Chemiotherapeutic V
Preparations. Anti-Biotics.

Abs Jour : Ref. Zhur - Biologiya, No. 5, 1959, 14033

Author : Gladenko, I. N.; Fortushnyy, V. A.

Inst : -

Title : The Influence of Biomycin and Levomycetin on the
Motor-Evacuatory Function of the Gastro-Intestinal
Tract in Figs and Dogs.

Orig Pub : Byul. nauchno-tekhn. inform. Ukr. n.-i. in-t
eksperim. veterinarii, 1957, No. 3, 27-28

Abstract : It was shown that biomycin (I) and levomycetin
(II) influence the motility of the gastro-
intestinal tract in various ways. Maximum
therapeutic doses of I (25-30 mg/kg) in internal
application increased the motor function of the

Card 1/2

USSR / Pharmacology. Toxicology. Chemicotherapeutic
Preparations. Anti-Biotics.

V

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 14033

stomach and the small intestines. The peristaltic waves became more frequent, expressed and deep. Increased doses of I (50-75 mg/kg) induced similar, but more strongly-expressed changes. Small doses of I (15 mg/kg) did not induce an increase of stomach and intestine motility, and in individual cases even slowed down the movement of their content. II in a dose of 15-25-30 mg/kg weakened the motor function of the stomach and intestines. With application of II in a dose of 50-75 mg/kg, the effect was sharper. -- I. Ya. Panchenko

Card 2/2

USSR/Diseases of Farm Animals. Diseases Caused R-1
by Viruses and Rickettsiae.

Abs Jour : Ref Zhur-Biol., No 20, 1956, 92698

Author : Fortushnyy, V. A., Gladenko, I. M.
Inst : Ukrainian Scientific Research Institute of
Veterinary Science.

Title : Treating Enzootic Bronchopneumonia in Young
Pigs with Antibiotics.

Orig Pub : Byul. nauchno-tekhn. inform. Ukr. n.-i.
in-ta eksperim. veterinarii, 1957, No 3,
34-35

Abstract : Biomycin [chlortetracycline] (I), levony-
cetin [chloramphenicol] (II), and streptomycin
(III) were used. Into the pigs aged 1-4
months, I was introduced internally, intra-

Card : 1/2

USPD/Diseases of Farm Animals. Diseases Caused
by Viruses and Rickettsiae.

R-1

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92698

muscularly, subcutaneously, or into the trachea twice a day during 6 days in a dose of 30 mg/kg. After an interruption of 2 days, the treatment was resumed for 4 days. II was given internally in a dose of 25 mg/kg twice a day, and III intramuscularly in a dose of 10 thousand units per 1 kg following the same time procedure as with I. I introduced perorally and intratracheally showed the best therapeutic results. II showed a less pronounced effect III a still weaker one. -- I. Ya. Panchenko

Card : 2/2

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi R

Abstr Jour : Ref Zhur - Biol., No 19, 1958, No 83233

Author : Fortushnyy V.I., Gladenko I.N.

Inst : Ukrainian Scientific Research Institute of Experimental Veterinary Medicine

Title : Study of the Medicinal Effects of Antibiotics in Spontaneous Paratyphoid Infections in Swine

Orig Pub : Byul. nauchno-tekhn. inform. Ukr. n.-i. in-t eksperim. veterinarii, 1957, No 3, 36-37

Abstract : Levomycetin (I), biomycin (II), and streptomycin (III) were used as medications. I and II were administered internally in the form of a water suspension 2 times daily in a dose of 36 mg/kg for 4-5 consecutive days, while III was injected intramuscularly twice daily, each time in a dose of 10 thousand units per 1 kg of weight. Best therapeutic results (95.65 percent) were produced with II, and somewhat lesser results were obtained with I (93.9 percent). Medicinal effects

Card : 1/2

FORTUSHCHY, V.A. kand. veterinarnykh nauk; GOVOROV, A.M., kand. veterinarnykh nauk; TSYBENKO, I.Z., veterinarnyy vrach; BOYCHENKO, A.S., veterinarnyy vrach; KALITENKO, Ye.T., veterinarnyy vrach

Stachybotryotoxicosis in cattle and its treatment. Veterinariia
36 no.9:67-70 S '59. (MIRA 12:12)
(Cattle--Diseases and pests)
(Mushrooms, Poisonous)

FORTUSHNYY, V.A., kand.veterinarnykh nauk; GLADENKOV, I.N., kand.
veterinarnykh nauk; PROSTYAKOV, A.P., kand.biologicheskikh
nauk; SHMIDOV, P.N., mladshiy nauchnyy sotrudnik; YEZHOVA,
O.I., starshiy laborant

Use of antibiotic aerosols in diseases of young pigs.
Veterinariia 37 no.9:56-58 S '60. (MIRA 14:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinariii.

(Swine--Diseases and pests)
(Aerosol therapy) (Antibiotics)

FOKTUSHNYY, V.A.; YEZHNOVA, O.I.

Sensitivity of pathogenic micro-organisms to antibiotics. Antibiotiki
6 no.5:441-442 My '61. (MIRA 14:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinarii, Khar'kov.

(ANTIBIOTICS)

PROSTYAKOV, A.P.; FORTUSHNIY, V.A.; KOVYNDIKOV, M.S.

Changes in the blood serum protein content in pregnant cows
and young calves. Ukr. biokhim. zhur. 33 no.4:505-513 '61.
(MIRA 15:6)

1. Ukrainian Experimental Veterinary Research Institute,
Kharkov.

(BLOOD PROTEINS) (PREGNANCY)

NOVIKOV, V.M., kand. veter. nauk; FORTUSHNYY, V.A., kand. veter. nauk;
SHULYAK, V.D., mladshiy nauchnyy sotrudnik

Treatment of piglets infected with paratyphoid fever.
Veterinariia 39 no.11:42-44 N '62. (MIRA 16:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinariii.

FORTUCHNYI, V.A.; NOVIKOV, V.N., land. veterin. nauk; Fort. V.A., stadiy
nauchnyy sotrudnik

Study and propagate the advanced practices of livestock farmers and
veterinary specialists in the Ukraine. Veterinariia 39 no.7:24-29
Jl '62. (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinari.ii.

FORTUSHNYY, V.A., kand. veter. nauk; NOVIKOV, V.M., kand.veter. nauk

Elimination of undesirable microflora in the fermentation of native antibiotics. Veterinariia no.12:52-54 D '63. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinaril.

GLADENKO, I.N.; FROSTYAYOV, A.F.; FORTUSHNYI, V.A.; KHROMENKO, I.I.

Biochemical changes in the blood of rabbits in experimental
hexachloran poisoning. Farm. i toks. 26 no.1:108-113 Ja-F '63.
(MIRA 17:7)

1. Otdel farmakologii Ukrainskogo nauchno-issledovatel'skogo
instituta eksperimental'noy veterinarii.

NOVIKOV, V.M.; FORTUSHNYY, V.A.; SHULYAK, V.D.

Method of determining vitamin B₁₂ using Escherichia coli.
Mikrobiologiya 32 no.2:319-322 Mr-Apr '63. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinari, Khar'kov.

FORTUSINYY, Vladimir Anisimovich; NOVIKOV, Vladimir Mitrofanovich;
KALUGIN, Leonid Konstantinovich; GRECHKO, G.S.[Hrechko, H.S.],
red.

[Prophylaxis of diseases in young farm animals; aid to veterinary specialists and stockbreeders] Profilsaktyka khvorob molodniaka sil's'kohospodars'kykh tvaryn; na dopomohu veterinarnym spetsialistam i pratsivnykam tvarynnytstva. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1964. 74 p. (MIRA 18:2)

PORTUSHNYY, V.A., kand. veterinarnykh nauk; SHMIDOV, P.N., starshiy nauchnyy
sotrudnik

Effect of antibiotics in paratyphoid fever of young pigs.
Veterinariia 41 no.4:23-25 Ap '65. (MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinariia.

NOVIKOV, V.M., kand. veter. nauk; FORTUSHIN, V.A., kand. veter. nauk;
SHULYAK, V.D., mladshiy nauchnyy sotrudnik; TERNEROVSKAYA, V.K.,
veterinarnyy vrach

Accelerated indicator method for determining vitamin B₁₂.
Veterinariia 42 no.5:106-108 My '65. (MIRA 18:6)

L. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinariia.

NOVIKOV, V.M., kand.veter.nauk; FORTUSHNYY, V.A., kand.veter.nauk;
GENSEROVSLAYA, V.K., veterinarnyy vrach

Sensitivity of the pathogen of swine erysipelas to antibiotics.
Veterinariia 41 no.7:26-27 J1 '64.

(MIRA 18:11)

1. Ukrainkiy nauchno-issledovatel'skiy institut eksperimental'-
noy veterinarii.

PORTUSHNYY, V.A., kand. veter. nauk; SHMIDOV, P.N., nauchnyy sotrudnik;
TIMOSHENKO, O.P., nauchnyy sotrudnik

Action of antibiotics and their combinations in colienteritis of
calves. Veterinariia 42 no.12:11-13 D '65. (MIRA 19:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy
veterinariil.

FORTYN, Karel

Eosinophilic granuloma of the stomach. Rozhl.chir. 39 no.9:620-623
S '60.

1. Chirurgické oddelení nemocnice Sokolov, přednosta MUDr
Karel Stropnický.

(STOMACH dis.)

(EOSINOPHILIC GRANULOMA case reports)

STROPNICKY, Karel; FORTYN, Karel

2 rare cases of synovial blastoma. Acta chir. orthop. trauma.
Cech. 28 no.2:96-99 Ap '62.

1. Chirurgické oddělení nemocnice v Sokolově, prim. dr. Karel
Stropnický.

(SYNOVIOMA case reports)

LIBANSKY, J.; MALASKOVA, V.; FORTYNOVA, J.; VOPATOVA, M.

Experiences with the transfusion of blood platelets in thrombocytopenias and thrombocytopathies. Cas.lek.cesk. 98 no.49/50: 1568-1572 4 D '59.

1. Ustav hematologie a krevni transfuze, reditel prof.dr.J.Horejsi, klin.oddeleni, prednosta doc.dr. J. Libansky, a transfuzni stanice, prednosta dr. M. Vopatova.

(BLOOD PLATELETS)
(BLOOD TRANSFUSION)
(THROMBOPENIA ther.)

FORTYNOVA, J.

Czechoslovakia

Institute of Hematology and Blood Transfusion (Ustav hematologie a krevni transfuse v Praze), Prague; Director: J. HOREJSI, MD, DSc; Clinic Director: J. LIBANSKY, MD.

Brno, Vnitřní lékařství, No 10, Oct 62, pp 1063-1069.

"A Discussion of the Problem of the Mechanism of Leukergy."

Co-author:

POSPISILOVA, V., Institute of Hematology and Blood Transfusion, Prague.

(2)

FORTYN'SH, G. [Fortins, G.]

Session of the Siberian Department of the Academy of Sciences of
the U.S.S.R. on the methods of mathematical modelling. Izv.AN
Latv.SSR no.12:124-128 '63. (MIRA 17:3)

FORVARD, F.A., professor; KHALPERN, Dzh., [HALPERN, G.] professor.

Hydrometallurgical processes at elevated pressures (from "Bull. of the Inst. of Mining and Metallurgy," Feb. 1957). Zhur.prikl.khim. 30 no.1:3-25 Ja '57. (MLRA 10:5)

1.Zaveduyushchiy gornym i metallurgicheskim otdeleniyem Universiteta Britanskoy Kolumbii, Vankuver, Kanada (for Forvard)
(Hydrometallurgy)

FORTYNOVA, J. /

Czechoslovakia

Institute of Hematology and Blood Transfusion (Ustav hematologie a krevni transfuze v Praze), Prague; Director: J. HORJESI, MD, DSc; Clinic Director: J. LIBANSKY, MD.

Brno, Vnitřní lékařství, No 10, Oct 62, pp 1063-1069.

"A Discussion of the Problem of the Mechanism of Leukeryg."

Co-author:

POSPISILOVA, V., Institute of Hematology and Blood Transfusion, Prague.

(2)

LIBANSKY, J.; CHROBAK, L.; MRKOS, D.; FORTYNOVA, J.; CERNIK, F.; SEMRAD, O.

Blood dyscrasias of drug etiology. Cas. lek. cesk. 101 no.51:1494-1503 21 D '62.

1. Ustav hematologie a krevni transfuze, prednosta prof. dr. J. Horejsi, DrSc., prednosta klinického oddeleni doc. dr. J. Libansky, II. interni klinika lekarske fakulty KU v Hradci Kralcve, prednosta prof. dr. J. Rehör, DrSc., I. interni klinika lekarske fakulty UJEP v Brno, prednosta prof. dr. M. Stejfa, nemocnice v Havlickove Brode.
(AGRANULOCYTOSIS) (THROMBOPENIA) (HEMATOLOGY)
(DRUG ALLERGY)

NESMEYANOV, A.N.; FIRSOVA, L.P.; REYNKHARDT, M.; FORYS', M.;
KURGANOVA, S.Ya.

Preparation of indole tagged with carbon-14 by the hot synthesis
method. Radiokhimiia 4 no.6:739-740 '62. (MIRA 16:1)
(Indole) (Carbon--Isotopes)

FIRSOVA, L.P.; FORYS' M.

Mechanism of ^{14}C recoil atoms in systems containing indole. Radiokhimiia
6 no.5:610-612 '64. (MIRA 18:1)

FIRSOVA, L. P.; NESMEYANOV, A. N.; BARAKAT, M. F.; FORYS, M.

"The interaction of C^{14} recoil atoms in binary mixtures."

report presented at IAEA Symp on Chemical Effects Associated with Nuclear Reactions and Radioactive Transformations, Vienna, 7-11 Dec 64.

L 39542-66 EWT(m)/T IJP(c) GD

ACC NR: AP6008156

SOURCE CODE: PO/0046/65/010/007/0427/0431

AUTHOR: Forys', Machislaw--Forys, M.; Zlotovski, Ignatsy--Zlotowski, I. 9

ORG: Nuclear Chemistry Faculty, University of Warsaw, Warsaw 8

TITLE: Device for precise measurements of sup 14 C radioactivity in organic compounds

SOURCE: Nukleonika, v. 10, no. 7, 1965, 427-431

TOPIC TAGS: radioisotope, carbon, radioactivity measurement, radiochemistry, carbon compound

ABSTRACT: The construction and operation of a self-quenching G-M counter¹⁹ for measuring radioactivity of ¹⁴C in organic compounds, converted to CO₂, is described. The statistical error involved in measuring specific activities of the order of 5×10^{-5} μ c/mg was less than 1%. Orig. art. has 2 figures and 2 tables.
/NA/

SUB CODE: 07, 18 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 006
SOV REF: 001

Card 1/1 vmb

Forys, Stanislaw

BILEK, Mieczyslaw; ~~FORYS~~, Stanislaw; KALCZYNSKI, Jerzy; LECZYCKA, Maria;
MALSKI, Leszek; SWIECHOWSKA, Walentyna

Preventive vaccination against influenza in Krakow during 1954-
55. Przegl. epidem., Warsz. 10 no.2:121-126 1956.

1. Z Wojewodskiej Stacji Sanitarno-Epidemiologicznej w Krakowie.
(INFLUENZA, prevention and control,
vacc. in Poland (Pol))

Forys, *Acta Medica Scand.* Vol. 11/6 Microbiol.
Stanislaw *Immunology and Serology*, June 53

1492. THE ANTIBODY LEVEL IN PERSONS CONVALESCENT AFTER TYPHUS FEVER MEASURED BY CFT - Poziom przeciwiat wiazacych dopełniacz u ozdrowieńców po durze wysypkowym - Forys S., Lutyński R. and Raginis Z. *Wojewódzk. Stacji San.-Epid., Kraków - PRZEGL. EPI-DEM.* 1957, 11/2 (157-162) Graphs 1 Tables 1

Using the CFT, 50 sera obtained from persons who had had typhus fever during the period of 1918-1955 were tested with R. prowazeki antigen. The initial dilution of each serum was 1:5. Forty-two sera were positive, 8 negative. During a 4-year period after the onset of the illness all persons tested showed a positive CFT and after this period some sera were found negative. Unspecific positive CFT with titres 1:5 and 1:10 were found in a number of persons who had never had typhus fever. (IV, 17*)

FORYS, Stanislaw

Reports of tuberculosis clinics in the light of statistical analysis.
Gruslica 27 no.7:695-699 J1 '59.
(TUBERCULOSIS epidemiol.)

FORYS, S.; LUTYNSKI, R. (Krakow)

The lambing of sheep infected with *Rickettsia burneti* and the Q-fever
in men. Roczn. nauk roln. wet. 70 no.1/4:284 '60.

(EEAI 10:9)

(Sheep) (*Rickettsia burneti*) (Q fever)

64

9

Action of inhibitors in the acid pickling of steel. I.
 M. Śmiałowski and J. Foryst (Inst. Metalurgii, Gliwice, Poland). *Prace Instytutu Metalurgii* 1949, 147-53 (English summary).—The inhibition efficiency was studied of 3 org. compds., dibenzyl sulfide, dibenzyl sulfoxide, and thiocarbonylsulfide, in the pickling of iron, steel, and other metals. Dibenzyl sulfide and thiocarbonylsulfide in a concn. of 50-80 mg./l. entirely restrain the H₂ evolution during the pickling of mild steel in 2 N H₂SO₄ at 40°, but do not completely hinder the diffusion of H into the steel. The presence of Ni ions in the acid solution increases the inhibition efficiency to some extent; the presence of Cu ions, on the other hand, reduces it considerably. A greater content of normal constituents in steel (e.g. C and S) also reduces the inhibition efficiency. The greatest inhibition efficiency of dibenzyl sulfoxide in HCl was noted in the case of Ni, Co, and Fe; it was smaller in the case of Cr and Al, and the smallest in the case of Zn and Mn.
 Edward A. Ackermann

C.A.
1951

Testing the efficacy of various methods of cleaning steel surfaces from mineral-oil layers. M. Smulikowski, J. Foryst, and A. Madejski. *Prace Glów. Inst. Met.* 3, No. 1, 55 (1951).--Specimens of cold-rolled soft steel strip were thoroughly cleaned with fine-grained emery paper (000) and then electrolytically treated in a soln. contg. NaOH 2, Na₂PO₄ 1, and Na₂SiO₃ (sp. gr. 1.37) 4% at cathodic c.d. 5 amp. per sq. dm., at 90°, for 2 min. The cleaned surface was then immersed in a soln. of 1-10% by wt. of machine oil in benzene for 1 min. The specimen after immersion was allowed to drain for 3 hrs. during which it was kept upright on blotting paper. Specimens were then subjected to chem. and electrolytic degreasing, after which the cleanliness of the surface was tested by the following methods: wetting with water, weighing, ultraviolet irradiation, and plating with Cu. The chem. degreasing was carried out by immersing for 5 min. at 90-95° in aq. solns. contg. 1 or more of the following substances: NaOH, Na₂SiO₃ (sp. gr. 1.37), Na₂PO₄, Leonil S (Na salt of the condensation product of naphthalenesulfonate with CH₂O), common soap, oleic soap, naphthenic soap, Ultravon (an emulsifier produced by Ciba, Basel), and Hapanol (emulsi-

der produced by the firm Boruta in Zary, Poland). Of these substances Na₂SiO₃ was most effective, but none gave complete degreasing. A 4% soln. of Na₂SiO₃ combined with 1% of one of the other substances gave best results with NaOH in which case the degree of cleaning was 90%. NaOH (1%) combined with 1% of one of the other substances gave better results than any of the substances taken alone but worse than in combination with Na₂SiO₃. The relatively best results were obtained in its combination with Leonil S. Mixts. of 1% Leonil S with 1% of one of the other substances (except NaOH) gave no better results than Leonil S taken alone. Of 3 component mixts. best results gave Na₂PO₄ 3, NaOH 1, and Leonil S 1%; degreasing was effected in 2 2/3 min. A mixt. of the first two substances and common soap 1% gave degreasing within 2-3 min. A mixt. of the first two and Na₂PO₄ 1% gave within 3 min. almost complete degreasing. Thus, an effective bath can be devised of several components which when acting alone are either utterly ineffective or only modestly effective. Electrolytic degreasing in a soln. contg. Na₂PO₄ 0.75, NaOH 1, and Na₂SiO₃ 3% at 90-95° with a Ni anode, and a cathodic c.d. of 3.5 amp. per sq. dm. was effected completely after 60 sec. The 3 component bath and the electrolytic method although effective in removing oil films applied for test purposes were ineffective in removing oil layers left during cold rolling. In the latter case only C₂HCl₃ was effective.

M. Hosh

13803* The Surface Tension of Mercury, Melted Tin, Bismuth, Lead, and Some Lead Alloys. (In Polish.) J. Forys. *Prace Glownego Instytutu Metalurgii*, v. 3, no. 4, 1951, p. 307-327.

Above were determined by the maximum-bubble-pressure method. The following results were obtained: surface tension of mercury, measured against H_2 , N_2 and CO_2 , depends on time of contact with these gases; surface tension of molten Sn and Pb is higher against CO_2 than against N_2 and H_2 , the complex association of metals cannot be determined by calculating the Eotvos constant on basis of experimental data, comparison of the experimental surface-tension curve of Pb-Bi alloys at $500^\circ C$. with the curve calculated theoretically on basis of additivity shows that so-called intermetallic compounds in the liquid state do not exist; and small additions of Zn and Sn do not affect the surface tension of molten Pb. 32 ref.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Deformation of steel under the influence of internal blisters and cracks produced by cathodic hydrogen. M. Smolowski and J. Foryst. *Bull. acad. polon. sci., Classe. III, 2, 319-324 (1954) (in English).*—Measurements were made of the deformations of annularly bent steel samples under the influence of their satn. by cathodic H in a soln. of $N H_4SO_4$ contg. 2×10^{-4} mole As per l. The rings were cut from cold-rolled tubing analyzing C 0.25, Mn 0.52, Si 0.22, P 0.015, S 0.020%. The samples measured 38 mm. diam., 15 mm. long, 0.4 mm. wall thickness, with a 0.5 mm. wide gap or strip cut out. Samples were polished, degreased, and coated with a thin layer of ceresin, then connected with the negative pole of a d.-c. source and immersed

In a small glass vessel, through which flowed the electrolyte at $25 \pm 1^\circ$. A Pt sheet anode $10 \times 10 \times 0.05$ mm. was placed in the middle of the ring. Cathodic c.d. was 0.1 amp./sq. cm. The ring was removed every 30 min. and the width of the gap was measured, always in the same place, with a microscope. The width usually increased during electrolysis, and also occurred when the outer surface of the ring was not covered with ceresin. If the anode was on the outside of a ring not insulated with ceresin, the gap during electrolysis often diminished to 0 and the ring contracted with great force. In the initial state the rings did not become deformed under the influence of H. The gap width, even after a long period of electrolysis, remained const. or, at the most, increased to 0.40 mm. Rings heated at 450° or higher, gradually expanded under the influence of hydrogenation, the gap acquiring a const. value on the av. about 2 mm. greater than the initial width after about 2 hrs. of current flow. Long, narrow cracks were apparent under the microscope in specimens satd. with cathodic H after annealing at 450° . They were mostly transcryst. It is con-

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cluded that the deformation is due to the accumulation, under high pressure, of mol. H in the internal steel structure. Since Fe does not show any important changes in elec. cond. under the influences of hydrogenation, and since the changes in its magnetic properties are small, it is assumed that the H diffuses in an at. form, and not as a proton. When the H atoms encounter an inclusion or a hole present on the grain boundaries, they unite into particles which remain motionless in a given place. Approx. calcs. seem to show that the magnitude of the pressures created in the steel structure by the H bilayers arising in this way may probably attain 10^4 or 10^5 atm.

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"'Inmet' Oil as a Lubricant for Hot Tin Plating of Iron Sheets," by J. FORYST, J. MADEJSKI, and I. ZARZYCKI; Prace Instytutow Ministerstwa Hutnictwa, Gliwice, No. 1, 1955.

